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Modified PTO/SB/21 (08-00)  
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	10/635,942	
	<b>Filing Date</b>	August 7, 2003	
	<b>First Named Inventor</b>	Tom RICHARDSON	
	<b>Group Art Unit</b>	2184	
	<b>Examiner Name</b>	Not yet assigned	
<b>Total Number of Pages in This Submission</b>	1	<b>Attorney Docket Number</b>	Flarion-75APP (101)

ENCLOSURES <i>(check all that apply)</i>		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Postcard Receipt <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> References DA-DM
<b>Remarks</b>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Michael P. Straub (Reg. No. 36,941)
Signature	<i>Michael P. Straub</i>
Date	January 18, 2005

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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Attorney Docket No.: **Flarion-75APP (101)**

Applicant: **Tom RICHARDSON et al.**

Serial No.: **10/635,942**

Filing Date: **August 7, 2003**

Title: **SOFT INFORMATION SCALING FOR ITERATIVE DECODING**

Examiner: **Not yet assigned**

Group Art Unit: **2184**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

S I R:

**Information Disclosure Statement Transmittal**

The applicants respectfully request that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references, except for U.S. patents and patent application publications is enclosed. (See the notice, "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003," Pre-OG Notices (July 11, 2003).)

The applicants reserve the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

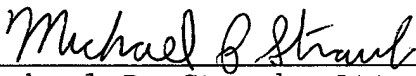
Since a first Office Action on the merits has not yet been received, the applicants assume that this Information Disclosure Statement should be considered under 37 C.F.R.

§§ 1.97(b)(3). **Accordingly, it is believed that no fee is due.**

If, however, an Office Action on the merits has been mailed before the filing date of this Information Disclosure Statement, the Office is authorized to charge any fee required to have the Information Disclosure Statement considered to the deposit account of Straub & Pokotylo, deposit account number 50-1049.

Respectfully submitted,


Dated: January 18, 2005

  
\_\_\_\_\_  
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**CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)**

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36,941  
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(modified PTO/SB/08A)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(use as many sheets as necessary)

Application Number: **10/635,942**  
Filing Date: **August 7, 2003**  
First Named Inventor: **Tom RICHARDSON**  
Group Art Unit: **2184**  
Examiner Name: **Not yet assigned**  
Attorney Docket No.: **Flarion-75APP (101)**

Complete if Known

Sheet

1

of

2

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where relevant Passages or Figures appear
	BA	3,542,756	Nov 24 1970	Gallager	
	BB	3,665,396	May 23 1972	Forney, Jr	
	BC	4,295,218	Oct 13 1981	Tanner	
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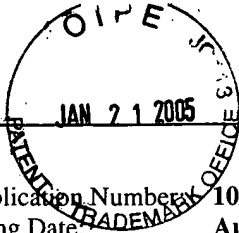
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Office <sup>3</sup> Number <sup>4</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

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1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.



U.S. Department of Commerce Patent and Trademark Office		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number:	10/635,942
		Filing Date:	August 7, 2003
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		Group Art Unit:	2184
		Examiner Name:	Not yet assigned
Sheet	2	of	2
		Attorney Docket No.:	Flarion-75APP (101)

## OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	T <sup>2</sup>
	DA	Richardson et al. The capacity of low-density parity-check codes under message-passing Decoding, IEEE Transactions on Information Theory; pages: 599-618, February 2001, (same inventor) whole document.	
	DB	Paranchych et al. Performance of a digital symbol synchronizer in cochannel interference and noise, IEEE Transactions on Communications, pages: 1945-1954; Nov. 2000, whole document.	
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	DE	Sorokine, V. et al. Innovative coding scheme for spread-spectrum communications, The Ninth IEEE International Symposium on Indoor and Mobile Radio Communications, pages: 1491-1495, Vol. 3; September 1998, whole document.	
	DF	T. Moors and M. Veeraraghavan, "Preliminary specification and explanation of Zing: An end-to-end protocol for transporting bulk data over optical circuits", pp. 1-55 (May 2001).	
	DG	T. Richardson and R. Urbanke, "The Capacity of Low-Density Parity-Check Codes under Message-Passing Decoding", pp. 1-44 (March 2001).	
	DH	T. Richardson, A. Shokrollahi, R. Urbanke, "Design of Capacity-Approaching Irregular Low-Density Parity-Check Codes", pp. 1-43 (March 2001).	
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	DJ	Saied Hemati, Amir H. Banihashemi, VLSI circuits: Iterative decoding in analog CMOS, Proceedings of the 13 <sup>th</sup> ACM Great Lakes Symposium on VLSI April 2003, Pages:15-20.	
	DK	Mohammad M. Mansour, Naresh R. Shanbhag, Session 11: Low-power VLSI decoder architectures for LDPC codes, Proceedings of the 2002 international symposium on Low power electronics and design August 2002, Pages: 284-289.	
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Examiner Signature		Date Considered	
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